A. CLASS Int.	SIFICATION OF SUBJECT MATTER C1 G01D5/245, F16C19/52, F16C	219/18, F16C33/58, F16C	41/00	
According to	o International Patent Classification (IPC) or to both na	ational classification and IPC		
	S SEARCHED			
Minimum de Int.	ocumentation searched (classification system followed C1 ⁷ G01D5/245, F16C19/52, F16C	by classification symbols) C19/18, F16C33/58, F16C	41/00	
Jitsu Koka	i Jitsuyo Shinan Koho 1971-2004	Jitsuyo Shinan Toroku Koh Toroku Jitsuyo Shinan Koh	o 1996–2004 o 1994–2004	
	lata base consulted during the international search (nam	e of data base and, where practicable, sea	rch terms used)	
C. DOCU	MENTS CONSIDERED TO BE RELEVANT			
Category*	Citation of document, with indication, where ap	propriate, of the relevant passages	Relevant to claim No.	
Y	JP 2001-201362 A (Ebara Corp 27 July, 2001 (27.07.01), Full text; all drawings (Family: none)	0.),	1-11	
Y	JP 2002-107111 A (Tamagawa S 10 April, 2002 (10.04.02), Full text; all drawings (Family: none)	eiki Co., Ltd.),	1-11	
Y	JP 2000-225931 A (Koyo Seiko 15 August, 2000 (15.08.00), Full text; all drawings (Family: none)	Co., Ltd.),	1–11	
Further documents are listed in the continuation of Box C. See patent family annex.				
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "A" later document published after the international filing date priority date and not in conflict with the application but cit understand the principle or theory underlying the invention cate considered novel or cannot be considered to involve an invention cate of particular relevance; the claimed invention cate of particu		he application but cited to derlying the invention claimed invention cannot be tred to involve an inventive eclaimed invention cannot be p when the document is a documents, such a skilled in the art family		
15 A	april, 2004 (15.04.04)	11 May, 2004 (11.0		
Name and mailing address of the ISA/ Japanese Patent Office		Authorized officer		
Facsimile No.		Telephone No.		

ategory*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
Y	JP 60-42603 A (Kabushiki Kaisha Onosokuki), 06 March, 1985 (06.03.85), Full text; all drawings (Family: none)	2
Y .	<pre>JP 2000-258187 A (Tamagawa Seiki Co., Ltd.), 22 September, 2000 (22.09.00), Full text; all drawings (Family: none)</pre>	3
Y	JP 11-257998 A (NSK Ltd.), 24 September, 1999 (24.09.99), Full text; all drawings & US 6186667 B1 & DE 1990283 A	7-11
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Y	JP 8-248049 A (Nippondenso Co., Ltd.), 27 September, 1996 (27.09.96), Full text; all drawings (Family: none)	. 11
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